

**HECTOR L. LAVERGNE-RAMÍREZ, PE, CWI**  
**Geotechnical and Materials Engineer**  
**AWS Certified Welding Inspector**  
**NACE Corrosion Technologist**

**EDUCATION**

Bachelor of Science in Civil Engineering, 1978  
University of Puerto Rico, School of Engineering  
Mayagüez Campus

**PROFESSIONAL  
REGISTRATION**

Licensed Professional Engineer (No. 8237)  
Commonwealth of Puerto Rico

American Welding Society (AWS)  
Certified Welding Inspector – Cert. No 83110193

**AFFILIATIONS**

National Association of Corrosion Engineers  
American Society of Civil Engineers  
American Concrete Institute  
American Society for Testing and Materials  
Puerto Rico Society of Geotechnical Engineers  
American Welding Society

**SHORT COURSES/  
SEMINARS**

OSHA Law and Accident Prevention, San Juan, Puerto Rico, 1979.

Radiation Safety and Use of Nuclear Soil Gauges, 1983.

Radiation Safety Aspects of Isotope Radiography, Boston, MA, 1983.

Industrial Radiography, MA, 1983.

Hartford Steam Boiler - Certified Welding Inspectors Review, Hartford, CT,  
1983.

American Welding Society - Preparatory for Welding Inspectors, Orlando, Fl.,  
1984.

Nondestructive Test Methods in Concrete, Mayagüez, Puerto Rico, 1985.

NACE Basic Corrosion Course, St. Paul, Minnesota, 1988.

NACE Cathodic Protection Course, Denver, Colorado, 1988.

AWS Visual Inspection Workshop, 1992

University of Florida - Dept. of Civil Engineering  
Short Course on Shallow Foundations, 1993.

GRL & Associates, Inc. - Deep Foundations Seminar  
Orlando Florida, 1993

University of Wisconsin - Madison, Dept. Of Civil Engineering  
Slope Stability and Landslides, 1994

University of Florida - Dept. of Civil Engineering  
Short Course on Deep Foundations, 1995

University of Wisconsin-Milwaukee, Center of Continuing Education  
Short Course on Drilled Shaft Foundations in Soil and Rock, 1998

Short Course on Use of PLAXIS Finite Element Code for Soil and Rock  
Analyses - University of California at Berkeley, 2001 and 2003

## **PROFESSIONAL EXPERIENCE**

In 1996 Mr. Lavergne founded GMTS, Corp. (Geotechnical & Materials Testing Services), as a result of a reorganization of Soil Tech Corp. Mr. Lavergne is responsible for the geotechnical and soils & materials testing (field and laboratory) operations of the company, including geotechnical consulting, and field and laboratory testing on concrete, steel, ceramics, wood, and other construction materials. Mr. Lavergne was also involved in these tasks in Soil Tech, and as staff engineer on other firms in Puerto Rico.

Mr. Lavergne has been involved as geotechnical consultant for the development of mega projects, including subsoil exploration for shallow and deep foundations for land and offshore structures, golf course construction, ground water supply systems and underwater investigations of existing piers.

Mr. Lavergne has been involved in structural investigation projects, requiring materials testing, welding inspection, and materials evaluation by destructive and non-destructive methods, steel-in-concrete size and distribution, and assessment of corrosion damage, among others.

Mr. Lavergne has also been involved as expert witness in various occasions in Puerto Rico, USVI and BVI in issues related to soils and materials testing.

## **KEY PROJECTS**

Geotechnical Engineering consultant for Ray-Meléndez & Associates, designers for El Conquistador Resort, Fajardo, Puerto Rico, 1990 to present

Geotechnical Engineering consultant for URS Caribe, LLP, designers of the Costa Isabela Resort, Isabela, Puerto Rico, 1990

Materials Engineering consultant for Domingo Galán & Associates, architects for Rehabilitation of Normandie Hotel, San Juan, Puerto Rico, 1987

Materials Engineering consultant for Rafael Jiménez & Associates, consultants for the structural evaluation of the Minillas Tunnel, San Juan, Puerto Rico, 1986

Materials Engineering consultant for Samuel I. Díaz, PE, PhD, consultant for the structural evaluation of Banco Popular de Puerto Rico, Stop 22, Ponce de León Ave., Santurce, Puerto Rico, 1987

Corrosion survey of steel-in-concrete, RCA de Puerto Rico, Barceloneta, Puerto Rico, 1986

Welding inspection of 40,000-gal diesel storage tank carbon steel-sheet floor, Water and Power Authority (WAPA), St. Thomas, USVI, 1988

Geotechnical Engineering consultant for Lebrón Associates, designers for State Road PR-66, San Juan-Canóvanas, Puerto Rico, 1995

Geotechnical Engineering consultant for The Puerto Rico Ports Authority on the rehabilitation design of Pier 1 in San Juan, Cargo and Passenger Pier & Terminal in Fajardo, and Piers C & D in Cataño, Puerto Rico, 1989

Geotechnical Engineering and Materials Testing consultant for Taylor Engineering and Bahía Urbana Project for the rehabilitation design of Piers 7, 8 and 9, in San Juan, 2010 to present.

Geotechnical Engineering Consultant for Geomorphologic Study for Monterrey Project, Vega Alta, Empresas Fonalledas, 2000 to present

Geotechnical Engineering Consultant for Geomorphologic Study for Puerta del Mar Development, Aguadilla, Puerto Rico, De V Builders, Corp, 2002  
Geotechnical Engineering Consultant for Geomorphologic Study for CSA for the PR-140 project, Florida, Puerto Rico, 2011

Geotechnical Engineering Consultant for Geomorphologic Study Costa Isabela Resort, Isabela, Puerto Rico, URS Caribe, LLP, 2004

Geotechnical Engineering consultant for Lebrón Associates, designers for State Road PR-17 Improvements, San Juan, P.R, 1997

Geotechnical Engineering consultant for the Cambalache Limited Partnership, S.P., for the Cambalache Power Plant, in Arecibo, P.R, 1993-1996

Geotechnical Engineering consultant for A.H. Development, S.E., for the Montehiedra Residential Development, in San Juan, Puerto Rico, 1994-2006

Inspection of structural steel fabrication, erection and welding of the roof structure of the Coliseo José M. Agrelot, in San Juan, Puerto Rico, 2002-2005.

Welding Inspection of several structural steel buildings in Abbott Pharmaceuticals, in Barceloneta, Puerto Rico

Materials Engineering consultant for Enrique Ruiz & Assoc., consultants for the structural evaluation of the Antonio Marques Arbona Housing Project, Arecibo, Puerto Rico, 2007

Welding Inspection of structural steel buildings at Pfizer Pharmaceuticals, in Barceloneta, Puerto Rico

Welding Inspection Workshops at Structural Steel Works, Inc., Marxhuach & Longo, Inc., Atlantic Pipe Corp., Puerto Rico Steel Works, Inc., and Engineers and Surveyors Association of Puerto Rico

Geotechnical Engineering consultant for CSA – Architects & Engineers for the Puerto Rico Convention Center District, in San Juan, P.R. 1999 – to present

Geotechnical Engineering consultant for CSA – Architects & Engineers, designers for State Road PR-66 Phase II, Canóvanas-Río Grande, Puerto Rico, 2006 to present  
Materials Engineering Consultant for Tren Urbano de Puerto Rico, 1997 to 2008

Geotechnical Engineering consultant for MSDQ – various A & E firms for the facilities in Barceloneta and Arecibo, Puerto Rico – 1986 to present

**EXPERT WITNESS  
PROJECTS**

Chiclana Creek Slope Stability Evaluation – A.H. Development - Montehiedra Development, San Juan, Puerto Rico, 1998 to 2006. Expert Witness services in this litigation included subsoil exploration and evaluation of technical data and preparation of reports, and public hearings and presentations in the PR Department of Natural Resources. Representing A.H. Development.

Evaluation of Underground Piping System - Central Chilled Water Plant, Pontificia Universidad Católica de Puerto Rico, Ponce Puerto Rico, Siemens V. Díaz Massó, Inc. et al **Civil KAC 03-6764**, 2005. Expert Witness services in this litigation included review of documents and site conditions, preparation of technical report, and deposition. Representing Díaz Massó, Inc.

Evaluation of Excavation Material (Changed Soil Conditions) - Improvements To Sanitary Sewer System El Valle Development, Lajas, Puerto Rico, Bermudez y Longo, 2007. Expert Witness services in this litigation included review of documents and preparation of technical report. Representing Bermudez y Longo.

Geomorphologic Evaluation of Ciudad Real Development, José A. Cubano vs. Corporación Desarrollos Ciudad Real, Vega Baja, PR, **Civil DPE 96-0045**, 2002 to date. Expert Witness services in this litigation included site visits, review of documents, evaluation of topographic and geomorphologic data, and preparation of technical report. Representing the Law Offices of Rivera Mercado & Rivera Cordero, on behalf of the general contractor.

Evaluation of Corrosion of Steel-in-Concrete, Otto Arroyo Residence, and others, Villas De Carraizo, Trujillo Alto, Puerto Rico, 2001 to date. Expert witness services in this litigation included materials testing and preparation of technical report. Representing Mr. Otto Arroyo.

Evaluation of Corrosion of Steel-in-Concrete, Luis A. Correa Cosme , et al. vs. Constructora Val-Ro, S.E. et. al, Carolina, PR, **Civil. FDP 2000-0735**. Expert witness services in this litigation included materials testing, preparation of technical report and deposition. Representing insurance company.

Evaluation of Erosion Damage and Subsoil Conditions at Alturas de Palmas Site, Palmas del Mar Properties, Inc. vs Alturas de Palmas Development, Palmas del Mar, Humacao, Puerto Rico, 1996 to 1998. Expert Witness services in this litigation included soils testing, review of documents, preparation of technical report, depositions and court appearances. Representing Palmas del Mar Properties, Inc.

Evaluation of Slope at Ms. Josie Barnés Residence, Urb. Heavenly View, Gurabo, Puerto Rico, 2007 to date. Expert Witness services in this litigation included site inspections, review of documents and land survey data, and preparation of technical report. Representing Ms. Josie Barnés.

Evaluation of Granite Pavers - Parque Luis Muñoz Rivera, NEWTEC , San Juan, Puerto Rico, 2004. Expert Witness services in this litigation included review of documents, depositions and court appearance as Expert Witness. Representing NEWTEC.

Evaluation of Structural Damages to Mr. Edwin Matos Residence, United Surety and Indemnity Company, Patrón Sector of Unibón Ward, in Morovis, Puerto Rico, 2005. Expert Witness services in this litigation included review of documents and preparation of technical report. Representing United Surety and Indemnity Company.

Evaluation of Landslide at Los Rosales Development, United Surety and Indemnity Company, Manatí, Puerto Rico, 2005. Expert Witness services in this litigation included review of documents and preparation of technical report. Representing United Surety and Indemnity Company.

Evaluation of Structural Damages to Mr. Carlos Salcedo Vélez Residence, United Surety and Indemnity Company, Barrio Llanos Costa, Cabo Rojo, Puerto Rico, 2007. Expert Witness services in this litigation included review of documents and preparation of technical report. Representing United Surety and Indemnity Company.

Geotechnical Evaluation of Existing Slope Conditions - Mr. Fran Woods – Project Manager, Sirensa Development, Estate Enighed, St. John, USVI,

2007. Expert Witness services in this litigation included review of documents and preparation of technical report.

Geotechnical Evaluation of Landslide - José C. Morales Dávila vs. Miguel Morales Espiet, (**Civil GEP 2008-0087**), Bo. Guavate, Cayey, Puerto Rico, 2008 to present. Expert Witness services in this litigation included review of documents and preparation of technical report. Representing Mr. Miguel Morales Espiet .

Evaluation of soil conditions Lots 16, 17, 18 and 36 Heavenly View Development, Gurabo, Puerto Rico - Messrs. José Sala and Roberto Pizarro, 2006 to date. Expert Witness services in this litigation included site inspections, review of documents and land survey data and preparation of technical reports. Representing Messrs. José Sala and Roberto Pizarro.

Geotechnical Evaluation of Existing Conditions, Asoc. Residentes Calle 2 y Reparto Garay vs. Empresas Arcoíris, Inc., Trujillo Alto, Puerto Rico – National Insurance Co., 2008, **Civil KPE 2001-1834**. Expert Witness services in this litigation included site inspections, review of documents and land survey data and preparation of technical reports. Representing National Insurance Co.

Weld Evaluation of Tuck Lift Platform Reinaldo Rivera Molina, et al, vs. American Paper Corp., et al, **Civil 06-1136 (DRD)**, 2008. Expert witness services regarding welding inspection and evaluation of truck lift platform resulting in collapse of the latter, including inspection of the equipment, review of documents and preparation of technical report. Representing Universal Insurance Co.

Geotechnical Evaluation of Existing Slope Conditions – Katitche Point Greathouse, - Dr. Christian Hodeige, Virgin Gorda, BVI, 2008.